

GILA RIVER BASIN

09496500 CARRIZO CREEK NEAR SHOW LOW, AZ

LOCATION.--Lat 33° 59'09", long 110° 16'49", in sec. 24, T.7 N., R.19 E. (unsurveyed), Gila County, Hydrologic Unit 15060104, in Fort Apache Indian Reservation, on right bank 500 ft upstream from bridge on U.S. Highway 60, 1 mi downstream from Corduroy Creek, 23 mi southwest of Show Low, and 24 mi upstream from mouth.

DRAINAGE AREA.--439 mi².

PERIOD OF RECORD.--June 1951 to June 1961, June 1967 to June 1976, Oct. 1975 to June 1976 (monthly discharges only), Apr. 1977 to current year.

REVISED RECORDS.--WRD Ariz. 1968: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,749.52 ft above sea level. Prior to June 1976 at site on bridge pier 400 ft downstream at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation above station of less than 300 acres. Records include trans basin diversion from Show Low Creek into headwaters of Carrizo Creek. (See sta 09495000.)

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,500 ft³/s Jan. 18, 1952, gage height, 12.08 ft, at site then in use, from rating curve extended above 2,000 ft³/s on basis of slope-area measurement of peak flow; maximum gage height, 15.1 ft Dec. 18, 1978, from high-water mark; minimum daily discharge, no flow, estimated, June 17, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1951, about 23,000 ft³/s Dec. 30, 1965, gage height, 13.0 ft, from floodmark at previous site, from rating curve extended above 2,000 ft³/s on basis of slope-area measurement at gage height 12.08 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and (or) maximum (*):

| | Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--|---------------|------|--------------------------------|------------------|----------------|------|--------------------------------|------------------|
| | July 16 | 1920 | 1,480 | 5.51 | Aug. 5 | 2220 | *11,000 | *12.50 |
| | July 25 | 1730 | 2,600 | 6.87 | Aug. 8 | 2330 | 1,270 | 5.20 |
| | July 26 | 1615 | 2,710 | 6.99 | Sept. 9 | 1745 | 2,950 | 7.23 |
| | Aug. 4 | 1900 | 5,340 | 9.22 | Sept. 10 | 1815 | 5,140 | 9.07 |

Minimum daily discharge, no flow, estimated, June 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 1 | 1.8 | 2.6 | 4.5 | 6.0 | 5.9 | 4.7 | 4.6 | 3.6 | 0.68 | 0.09 | .22 | 5.6 |
| 2 | 2.3 | 2.8 | 4.5 | 5.5 | 6.0 | 4.7 | 4.4 | 3.0 | 0.53 | 0.16 | 102 | 5.7 |
| 3 | 2.5 | 2.8 | 4.5 | 5.4 | 5.9 | 4.6 | 4.4 | 2.8 | 0.56 | 0.28 | 42 | 6.3 |
| 4 | 2.1 | 2.8 | 5.2 | 5.3 | 5.8 | 4.7 | 4.3 | 2.8 | 0.59 | 0.41 | 543 | 5.2 |
| 5 | 1.9 | 3.2 | 6.1 | 5.2 | 5.6 | 4.7 | 4.3 | 2.7 | 0.64 | 0.51 | 818 | 4.8 |
| 6 | 1.9 | 3.7 | 5.2 | 5.3 | 4.8 | 4.7 | 2.6 | 0.88 | 0.62 | 418 | 5.2 | |
| 7 | 3.6 | 3.4 | 4.9 | 5.1 | 5.3 | 4.8 | 7.6 | 2.4 | 0.74 | 0.15 | 54 | 4.9 |
| 8 | 6.3 | 3.3 | 4.8 | 5.2 | 5.3 | 6.2 | 6.0 | 2.9 | 0.26 | 0.40 | 68 | 107 |
| 9 | 3.1 | 3.3 | 4.8 | 5.2 | 5.2 | 5.5 | 5.3 | 2.2 | 0.17 | 0.60 | 98 | 305 |
| 10 | 2.8 | 3.4 | 4.9 | 5.4 | 5.0 | 5.1 | 4.9 | 2.0 | 0.17 | 0.87 | 16 | 553 |
| 11 | 2.3 | 3.5 | 5.7 | 5.4 | 5.0 | 4.9 | 4.8 | 1.7 | 0.78 | 1.6 | 10 | 175 |
| 12 | 2.1 | 3.7 | 6.1 | 5.2 | 5.1 | 4.9 | 4.7 | 1.6 | 0.41 | 0.75 | 7.2 | 42 |
| 13 | 2.2 | 3.7 | 5.5 | 5.2 | 5.1 | 4.8 | 4.4 | 2.0 | 0.38 | 0.85 | 5.9 | 18 |
| 14 | 2.2 | 3.8 | 5.5 | 5.2 | 5.0 | 4.7 | 4.2 | 1.4 | 0.24 | 0.81 | 5.1 | 13 |
| 15 | 2.2 | 3.8 | 6.0 | 5.2 | 5.0 | 4.7 | 4.1 | 1.3 | 0.09 | 1.3 | 42 | 9.6 |
| 16 | 2.2 | 3.9 | 5.9 | 5.3 | 5.0 | 4.7 | 4.3 | 1.3 | e0.03 | 154 | 78 | 7.7 |
| 17 | 2.2 | 4.0 | 5.7 | 5.3 | 4.9 | 4.8 | 4.4 | 1.3 | e0.00 | 47 | 33 | 6.8 |
| 18 | 2.2 | 4.0 | 5.7 | 5.3 | 5.0 | 4.8 | 4.1 | 1.2 | e0.40 | 79 | 9.6 | 8.0 |
| 19 | 2.2 | 4.1 | 5.8 | 5.2 | 5.1 | 4.8 | 4.0 | 1.2 | 0.04 | 27 | 20 | 8.1 |
| 20 | 2.2 | 4.0 | 5.7 | 5.2 | 5.0 | 4.6 | 3.9 | 1.6 | e0.02 | 14 | 59 | 5.9 |
| 21 | 2.2 | 4.2 | 5.5 | 5.2 | 4.8 | 4.6 | 4.0 | 0.82 | 0.31 | 5.4 | 54 | 5.4 |
| 22 | 2.3 | 4.2 | 5.3 | 5.2 | 4.7 | 4.6 | 3.9 | 1.2 | 0.24 | 2.8 | 11 | 5.3 |
| 23 | 2.4 | 4.3 | 5.3 | 5.4 | 4.9 | 4.5 | 3.8 | 1.8 | 0.06 | 14 | 7.2 | 5.2 |
| 24 | 2.3 | 4.2 | 5.4 | 5.6 | 4.9 | 4.5 | 3.7 | 1.6 | 0.07 | 53 | 5.9 | 4.6 |
| 25 | 2.3 | 4.4 | 5.2 | 5.7 | 4.8 | 4.6 | 3.6 | 1.1 | 0.05 | 208 | 5.3 | 4.7 |
| 26 | 2.3 | 4.5 | 5.2 | 5.4 | 4.6 | 4.6 | 3.5 | 1.5 | 0.13 | 241 | 4.9 | 4.2 |
| 27 | 2.3 | 4.5 | 5.4 | 5.4 | 4.7 | 4.5 | 3.4 | 1.2 | 0.14 | 40 | 4.5 | 3.9 |
| 28 | 2.4 | 4.4 | 5.3 | 5.3 | 4.8 | 4.5 | 3.4 | 0.94 | 0.08 | 37 | 4.5 | 4.0 |
| 29 | 2.4 | 4.5 | 5.4 | 5.3 | -- | 5.1 | 3.5 | 0.92 | 0.13 | 23 | 15 | 4.0 |
| 30 | 2.4 | 4.5 | 5.5 | 6.3 | -- | 5.3 | 3.0 | 0.84 | 0.06 | 8.5 | 16 | 3.9 |
| 31 | 2.4 | -- | 5.7 | 6.0 | -- | 4.8 | -- | 0.71 | -- | 5.1 | 6.6 | -- |
| TOTAL | 76.0 | 113.5 | 166.2 | 166.8 | 143.7 | 149.1 | 129.2 | 54.23 | 8.88 | 968.20 | 2585.7 | 1342.0 |
| MEAN | 2.452 | 3.783 | 5.361 | 5.381 | 5.132 | 4.810 | 4.307 | 1.749 | 0.296 | 31.23 | 83.41 | 44.73 |
| MAX | 6.3 | 4.5 | 6.1 | 6.3 | 6.0 | 6.2 | 7.6 | 3.6 | 0.88 | 241 | 818 | 553 |
| MIN | 1.8 | 2.6 | 4.5 | 5.1 | 4.6 | 4.5 | 3.0 | 0.71 | 0.00 | 0.09 | 4.5 | 3.9 |
| AC-FT | 151 | 225 | 330 | 331 | 285 | 296 | 256 | 108 | 18 | 1920 | 5130 | 2660 |
| CFSM | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.07 | 0.19 | 0.10 |
| IN. | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.08 | 0.22 | 0.11 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2002, BY WATER YEAR (WY)

| | MEAN | 20.76 | 66.46 | 88.04 | 113.5 | 135.6 | 45.90 | 18.27 | 11.37 | 12.70 | 18.81 | 10.55 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MAX | 397 | 147 | 762 | 1031 | 965 | 698 | 350 | 154 | 41.3 | 41.1 | 83.4 | 44.7 |
| (WY) | 1973 | 1960 | 1979 | 1993 | 1980 | 1978 | 1973 | 1973 | 1973 | 1973 | 2002 | 2002 |
| MIN | 1.63 | 2.53 | 3.86 | 5.38 | 5.13 | 4.81 | 4.31 | 1.75 | 0.30 | 1.35 | 2.96 | 0.91 |
| (WY) | 1957 | 1957 | 1957 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 1971 | 1997 | 1956 |

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1951 - 2002

| | | | | | | | | | | | | |
|--------------------------|---------|-------|---------|------|--------|--|-------|--------|------|-------|--------|------|
| ANNUAL TOTAL | 3936.23 | | 5903.51 | | | | | | | 48.22 | | |
| ANNUAL MEAN | 10.78 | | 16.17 | | | | | | | 201 | 1979 | |
| HIGHEST ANNUAL MEAN | | | | | | | | | | 5.22 | 2000 | |
| LOWEST ANNUAL MEAN | | | | | | | | | | 0.00 | Jun 17 | 2002 |
| HIGHEST DAILY MEAN | 101 | Apr 7 | | 818 | Aug 5 | | 10900 | Dec 18 | 1978 | | | |
| LOWEST DAILY MEAN | 0.84 | Sep 9 | | 0.00 | Jun 17 | | 0.00 | Jun 17 | 2002 | | | |
| ANNUAL SEVEN-DAY MINIMUM | 0.89 | Sep 6 | | 0.09 | Jun 23 | | 0.09 | Jun 23 | 2002 | | | |
| ANNUAL RUNOFF (AC-FT) | 7810 | | 11710 | | | | 34930 | | | | | |
| ANNUAL RUNOFF (CFSM) | 0.025 | | 0.037 | | | | 0.11 | | | | | |
| ANNUAL RUNOFF (INCHES) | 0.33 | | 0.50 | | | | 1.49 | | | | | |
| 10 PERCENT EXCEEDS | 21 | | 13 | | | | 69 | | | | | |
| 50 PERCENT EXCEEDS | 7.6 | | 4.7 | | | | 10 | | | | | |
| 90 PERCENT EXCEEDS | 1.9 | | 0.70 | | | | 2.6 | | | | | |

e Estimated